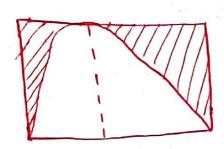
I' The figure below is a rectangle inside is a semi-circle, the area that follow.



(a) Find the diameter of the semi-circle soln.

Let the radius of the semi-circle be m Length = 2m Width = radius = m

Area of the shaded part Area = Lxw - $\frac{1}{2}$ Tr² 336cm² = 2mxm - 22xmxm 336cm² = 2m² - 22m² 14 336cm² = 28m² - 22m²

336cm² = 6cm²

6m² = 336cm² × 14 6m² = 336cm² × 14 6

m2 = 784cm2

₹77 = \$184cm²

m = 28cm

Diameter = 2×r = 2×18cm = S6cm

